

DERWENT-ACC-NO: 1980-64947C

DERWENT-WEEK: 198037

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TITLE: Cheap soil conditioner for, e.g.
vegetable growing -
(in)organic component(s),
activity of soil, and can
comprises slag, fertiliser and
adjustable in amt. dependent on
reduce plant disease

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PRIORITY-DATA: 1979JP-0008367 (January 26, 1979)

PATENT-FAMILY:

PUB-NO	PAGES	MAIN-IPC	PUB-DATE	LANGUAGE
JP 55099992 A	000	N/A	July 30, 1980	N/A

INT-CL (IPC): C09K017/00

ABSTRACTED-PUB-NO: JP 55099992A

BASIC-ABSTRACT:

Soil conditioner (I) comprises 100 pts. wt. of slag, 5-20 pts. by wt. of organic material and additional fertilising componentn. (I) contains inorganic component contg. total N of ≥ 0.3 pt. by wt., $P_{2O5} \geq 0.4$; $K_2O \geq 0.2$; SiO_2 30-40, CaO 35-45; FeO 0.3-1.9 and MgO 3-7, of pH 10-12 and comprises a porous granular body.

Converter slag and blasf furnace slag is pref. used. The conditioner with the organic material of 5-10 pts. by wt. is suitable for the strongly acidic soil. of 7.5-12.5 pts. by wt. is suitable for general acidic soil,

and the one with
12.5-20 pts. by wt. for weakly acidic soil. The organic
material contains the
N, K and P. The amt. of the soil conditioner used is 200-300
kg./1. per year,
but 500-1000 kg./1. are for strongly acidic soil.

The soil conditioner is cheap, easy to handle, with
long-lasting effect. The
porous granules improve the aeration of soil. (I) can
control the action of
harmful bacteria, and can be applied for the cultivation of
vegetables, fruits,
flowering and tea plants and grass.

TITLE-TERMS: CHEAP SOIL CONDITION VEGETABLE GROW COMPRISE
SLAG FERTILISER

ORGANIC COMPONENT ADJUST AMOUNT DEPEND ACTIVE
SOIL CAN REDUCE PLANT
DISEASE

DERWENT-CLASS: C04

CPI-CODES: C04-D02; C12-N08;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

V600 P124 P126 P127 M781 R003 M423 M902

PAT-NO: JP355099992A
DOCUMENT-IDENTIFIER: JP 55099992 A
TITLE: SOIL MODIFIER
PUBN-DATE: July 30, 1980

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COUNTRY
N/A

APPL-NO: JP54008367
APPL-DATE: January 26, 1979

INT-CL (IPC): C09K017/00
US-CL-CURRENT: 71/11, 71/25 , 71/903

ABSTRACT:

PURPOSE: A soil modifier that is mainly composed of slags containing
P<SB>2</SB>O<SB>5</SB>, SiO<SB>2</SB>, CaO, FeO, and MgO,
thus preventing the
soil from hardening and alkali trouble with high durability.

CONSTITUTION: (A) 100 parts by wt. of slag from blast or
revolving furnaces,
(B) 5~20 parts of organic substances and (C) additional
fertility
components of N, P, K, etc., are combined to give the
objective soil modifier
of porous particles wherein, as inorganic components, the
total nitrogen
content is no more than 0.3 parts, phosphorus pentoxide is no

more than 0.4
part, potassium oxide is no more than 0.2 part, silica is
30~40 parts,
calcium oxide is 35~45 parts, ferric oxide is 0.3~1.9
parts, magnesium
oxide is 3~7 parts and the pH is 10~12.

EFFECT: Slags are effectively utilized and give
thick-green vegetables and
fruit with high mineral content.

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